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L5 50 S L4 SSS SAM L6 1133 S L4 SSS FULL

FILE 'HCAPLUS' ENTERED AT 13:39:04 ON 28 DEC 2009 L7 359 S L6

FILE 'REGISTRY' ENTERED AT 13:39:53 ON 28 DEC 2009 L8 STRUCTURE UPLOADED

L8 STRUCTURE UPLOADED

=> d 18 L8 HAS NO ANSWERS L8 STR

L1

L2

L9 3 S L8 SSS SAM SUB=L6 L10 36 S L8 SSS FULL SUB=L6

FILE 'HCAPLUS' ENTERED AT 13:41:34 ON 28 DEC 2009

L11 22 S L10 L12 11 S L11

11 S L11 AND (PY<2004 OR AY<2004 OR PRY<2004)

L12 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Preparation of aminobenzodiazepinones and pharmaceutical compositions

containing them for use against respiratory syncytial virus

AB

$$\mathbb{R}^{3} = \mathbb{R}^{2} \xrightarrow{\mathbb{N}} \mathbb{N}^{4} \mathbb{R}^{5}$$

$$\mathbb{R}^{3} = \mathbb{N}^{1} \mathbb{N}^{4} \mathbb{R}^{5} \mathbb{N}^{5} \mathbb{N}^$$

pharmaceutically acceptable salts thereof, are active against respiratory syncytial virus (RSV). For I: R1 = C1-6 alkyl, aryl or heteroaryl; R2 = H or C1-6 alkyl; each R3 = halogen, hydroxy, C1-6 alkyl, C1-6 alkoxy, C1-6 alkylthio, C1-6 haloalkyl, C1-6 haloalkoxy, amino, mono(C1-6 alkyl)amino, di(C1-6 alkyl)amino, nitro, cyano, -CO2RI, -CONRIRII, -NH-CO-RI, -S(O)RI, -S(O)2RI, -NH-S(0)2RI, -S(0)NRIRII or -S(0)2NRIRII wherein each RI and RII = H or C1-6 alkyl; n = 0-3; R4 = H or C1-6 alkyl; R6 = C1-6 alkyl, aryl, heteroaryl, carbocyclyl, heterocyclyl, aryl-(C1-6 alkyl)-, heteroaryl-(C1-6 alkyl)-, carbocyclyl-(C1-6 alkyl)-, heterocyclyl-(C1-6 alkyl)-, aryl-C(0)-C(0)-, heteroaryl-C(0)-C(0)-, $\operatorname{carbocyclyl-C(0)-C(0)-}$, $\operatorname{heterocyclyl-C(0)-C(0)-}$ or $-\operatorname{XR6}$. $\operatorname{X}=-\operatorname{CO-}$, -S(0) - or -S(0)2 -; and R6 = C1 - 6 alkyl, hydroxy, C1 - 6 alkoxy,C1-6 alkylthio, aryl, heteroaryl, carbocyclyl, heterocyclyl, aryl-(C1-6 alkyl)-, heteroaryl-(C1-6 alkyl)-, carbocyclyl-(C1-6 alkyl)-, heterocyclyl-(C1-6 alkyl)-, aryl-(C1-6hydroxyalkyl)-, heteroaryl-(C1-6 hydroxyalkyl)-, carbocyclyl-(C1-6 hydroxyalkyl)-, heterocyclyl-(C1-6 hydroxyalkyl)-, aryl-(C1-6alkyl)-O-, heteroarv1-(C1-6alkv1)-O-, carbocvclv1-(C1-6 alkv1)-O-, heterocyclyl-(C1-6 alkyl)-O- or -NRIRII wherein each RI and RII = H, C1-6 alkyl, carbocyclyl, heterocyclyl, aryl, heteroaryl, aryl-(C1-6 alkyl)-, heteroaryl-(C1-6 alkyl)-, carbocyclyl-(C1-6 alkyl)or heterocyclyl-(C1-6 alkyl)-. Although the methods of preparation are not claimed, .apprx.80 example prepns. are included. For example, II was prepared by N-acetylation of 3amino-5-phenyl-1,3- dihydrobenzo[e][1,4]diazepin-2-one; the reactant was prepared by deprotection of (2-oxo-5-phenyl-2,3dihydro-1H-benzo[e][1,4]diazepin-3- yl)carbamic acid benzyl ester, which was prepared by cyclization of (2aminophenyl)phenylmethanone with (benzotriazol-1yl) (benzyloxycarbonylamino) acetic acid, which was prepared from glyoxylic acid monohydrate, benzotriazole and benzyl carbamate in toluene. Values for inhibition of RSV and toxicity were determined for >100 examples of I.

Benzodiazepines (shown as I; variables defined below; e.g. II) and

ACCESSION NUMBER: 2004:267311 HCAPLUS Full-text
DOCUMENT NUMBER: 140:287417

TITLE: Preparation of aminobenzodiazepinones and pharmaceutical compositions containing them

for use

against respiratory syncytial virus

INVENTOR(S): Carter, Malcolm; Henderson, Elisa; Kelsey, Richard;

Tyms,

Stan

PATENT ASSIGNEE(S): Arrow Therapeutics Limited, UK

SOURCE:

PCT Int. Appl., 134 pp.

Wilson, Lara; Chambers, Phil; Taylor, Debra;

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: 1

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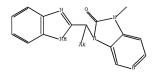
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L13 HAS NO ANSWERS L13 STR



L14 0 S L13 SSS SAM L15 0 S L13 SSS FULL

FILE 'HCAPLUS' ENTERED AT 13:46:03 ON 28 DEC 2009

FILE 'REGISTRY' ENTERED AT 13:46:06 ON 28 DEC 2009

FILE 'REGISTRY' ENTERED AT 13:46:35 ON 28 DEC 2009 E 103373-61-1/RN

SET EXPAND CONTINUOUS

L16 1 S E3

E 206115-23-3/RN L17 1 S E15

E 173459-49-9/RN

L18 1 S E27

FILE 'HCAPLUS' ENTERED AT 13:50:19 ON 28 DEC 2009 L19 1 S L12 AND (SYNCYTIAL?)

L19 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN TI Preparation of aminobenzodiazepinones and pharmaceutical compositions

containing them for use against respiratory syncytial virus

AB Benzodiazepines (shown as I; variables defined below; e.g. II) and pharmaceutically acceptable salts thereof, are active against respiratory syncytial virus (RSV). For I: R1 = C1-6 alkyl, aryl or heteroarv1; R2 = H or C1-6 alkv1; each R3 = halogen, hydroxv, C1-6 alkyl, C1-6 alkoxy, C1-6 alkylthio, C1-6 haloalkyl, C1-6 haloalkoxy, amino, mono(C1-6 alkyl)amino, di(C1-6 alkyl)amino, nitro, cyano, -CO2RI, -CONRIRII, -NH-CO-RI, -S(O)RI, -S(O)2RI, -NH-S(0)2RI, -S(0)NRIRII or -S(0)2NRIRII wherein each RI and RII = H or C1-6 alkyl; n = 0-3; R4 = H or C1-6 alkyl; R6 = C1-6 alkyl, aryl, heteroaryl, carbocyclyl, heterocyclyl, aryl-(C1-6 alkyl)-, heteroaryl-(C1-6 alkyl)-, carbocyclyl-(C1-6 alkyl)-, heterocyclyl-(C1-6 alkyl)-, aryl-C(0)-C(0)-, heteroaryl-C(0)-C(0)-, carbocvclvl-C(0)-C(0)-, heterocvclvl-C(0)-C(0)- or -XR6. X = -CO-, -S(0) - or -S(0)2 -; and R6 = C1-6 alky1, hydroxy, C1-6 alkoxy, C1-6 alkylthio, aryl, heteroaryl, carbocyclyl, heterocyclyl, aryl-(C1-6 alkyl)-, heteroaryl-(C1-6 alkyl)-, carbocyclyl-(C1-6 alkyl)-, heterocyclyl-(C1-6 alkyl)-, aryl-(C1-6hydroxyalkyl)-, heteroaryl-(C1-6 hydroxyalkyl)-, carbocyclyl-(C1-6 hydroxyalkyl)-, heterocyclyl-(C1-6 hydroxyalkyl)-, aryl-(C1-6alkyl)-O-, heteroaryl-(C1-6alkyl)-O-, carbocyclyl-(C1-6 alkyl)-O-, heterocyclyl-(C1-6 alkyl)-O- or -NRIRII wherein each RI and RII = H, C1-6 alkyl, carbocyclyl, heterocyclyl, aryl, heteroaryl, aryl-(C1-6 alkyl)-, heteroaryl-(C1-6 alkyl)-, carbocyclyl-(C1-6 alkyl)or heterocyclyl-(C1-6 alkyl)-. Although the methods of preparation are not claimed, .apprx.80 example prepns. are included. For example, II was prepared by N-acetylation of 3amino-5-phenyl-1,3- dihydrobenzo[e][1,4]diazepin-2-one; the reactant was prepared by deprotection of (2-oxo-5-phenyl-2,3dihydro-1H-benzo[e][1,4]diazepin-3- yl)carbamic acid benzyl ester, which was prepared by cyclization of (2aminophenyl)phenylmethanone with (benzotriazol-1yl) (benzyloxycarbonylamino) acetic acid, which was prepared from

glyoxylic acid monohydrate, benzotriazole and benzyl carbamate in

toluene. Values for inhibition of RSV and toxicity were determined for >100 examples of I.

ACCESSION NUMBER:

2004:267311 HCAPLUS Full-text

DOCUMENT NUMBER: 140:287417

TITLE: Preparation of aminobenzodiazepinones and pharmaceutical compositions containing them

for use

against respiratory syncytial virus

INVENTOR(S): Carter, Malcolm; Henderson, Elisa; Kelsey, Richard;

Tyms,

Wilson, Lara; Chambers, Phil; Taylor, Debra;

APPLICATION NO.

DATE

Stan

PATENT ASSIGNEE(S): Arrow Therapeutics Limited, UK

SOURCE: PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE _____ ---------

WO 2004026843 A 1 20040401 WO 2003-GB4050

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LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO. NZ.

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FILE 'REGISTRY' ENTERED AT 13:51:50 ON 28 DEC 2009 L20 STRUCTURE UPLOADED

L20 STRUCTURE UPLOADED

=> d 120

L20 HAS NO ANSWERS

L20 STR

L21 0 S L20 SSS SAM L22 4 S L20 SSS FULL

FILE 'HCAPLUS' ENTERED AT 13:52:36 ON 28 DEC 2009

L23 3 S L22 L24 1 S L23 AND (PY<2004 OR AY<2004 OR PRY<2004)

L24 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN TI Preparation of imidazopyridine and imidazopyrimidine antiviral agents $\mbox{\rm GI}$

AB The title compds. [I; W = O, S; R1 = (CR'R'')NX; X = H, alkyl, cycloalkyl, etc.; n = 2-6; R2 = H, alkyl, cycloalkyl, etc.; R3-R6 = H, halo, alkyl, etc.; A, B, E, D = CH, CQ, N, NO; provided at least one of A, B, E or D is not CH or CQ; Q = halo, alkyl, alkyl substituted with 1-3 halogen atoms; R', R'' = H, alkyl, cycloalkyl, etc.], useful in the treatment of viral infections, more particularly, for the treatment of respiratory syncytial virus infection, were prepared Thus, reacting I [W = O; R1 = (CH2)3NH2; R2 = cyclopropyl; R3-R6 = H; E = N; A, B, D = CH] (preparation given) with N-chloroacetylurethane in the presence of Na2CO3 in MeCN afforded 39% II.TFA. The compds. I showed antiviral activity against RSV with ECSO's between 50 μM and 0.001 μM vs. Ribavirin with an ECSO of 3 μM.

ACCESSION NUMBER: 2001:923615 HCAPLUS Fuli-text
DOCUMENT NUMBER: 136:37623

TITLE:

imidazopyrimidine

Preparation of imidazopyridine and

antiviral agents

INVENTOR(S): Yu, Kuo-Long; Civiello, Rita L.; Combrink,

Keith D.;

Gulgeze, Hatice Belgin; Sin, Ny; Wang,

Xiangdong;

Meanwell, Nicholas A.; Venables, Brian Lee Bristol-Myers Squibb Company, USA

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 196 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE:

English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation);
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     FILE 'REGISTRY' ENTERED AT 15:07:09 ON 28 DEC 2009
               E 380603-12-3/RN
               SET EXPAND CONTINUOUS
              1 S E3
1.6
L7
              1 S E10
```

E 380603-70-3/RN

L8 1 S E15 L9 1 S E16 L10 1 S E13